

FIG. 1(A)

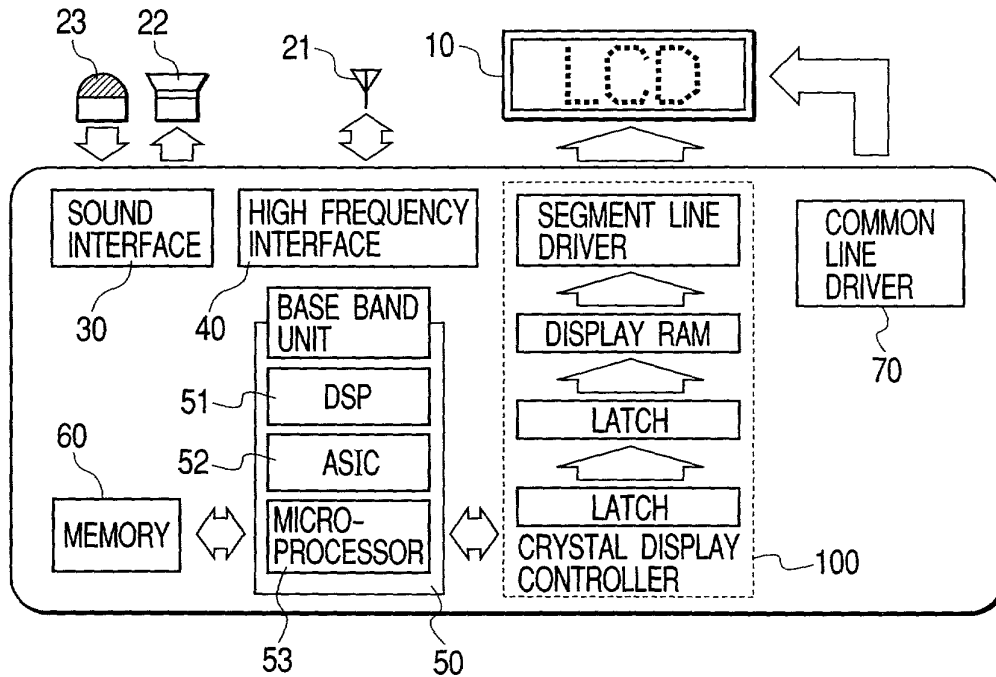


FIG. 1(B)

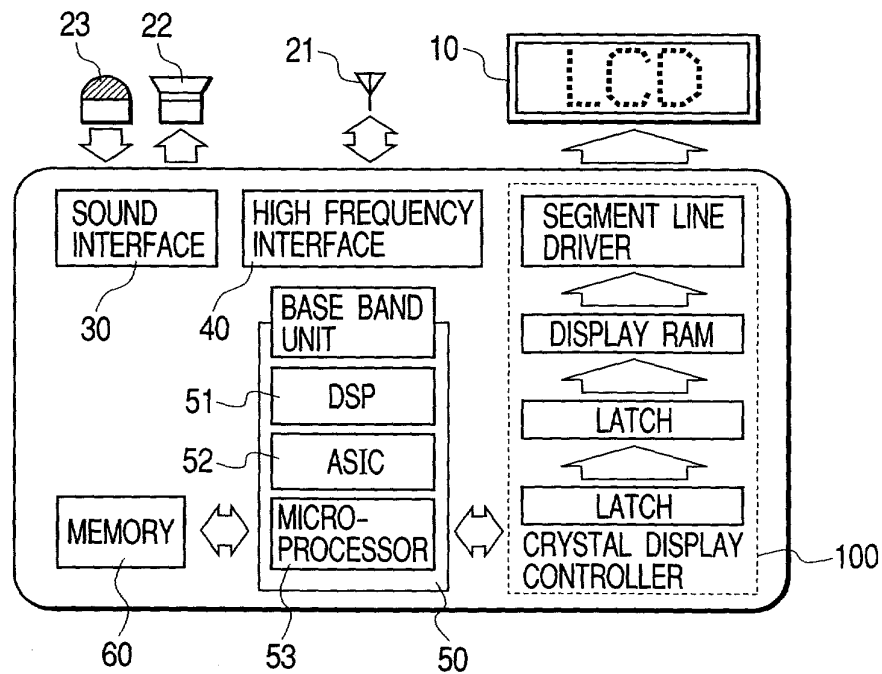


FIG. 2

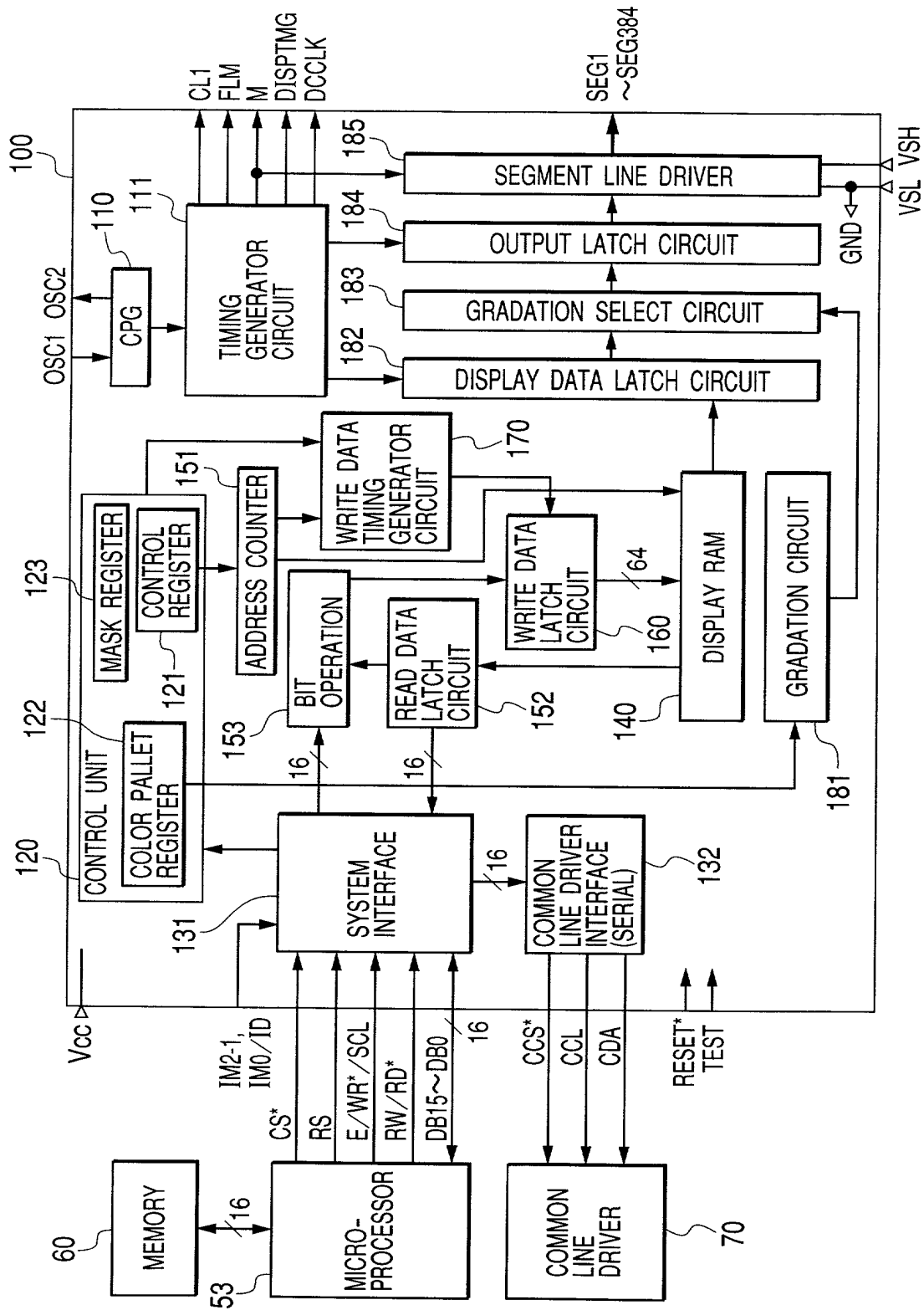


FIG. 4

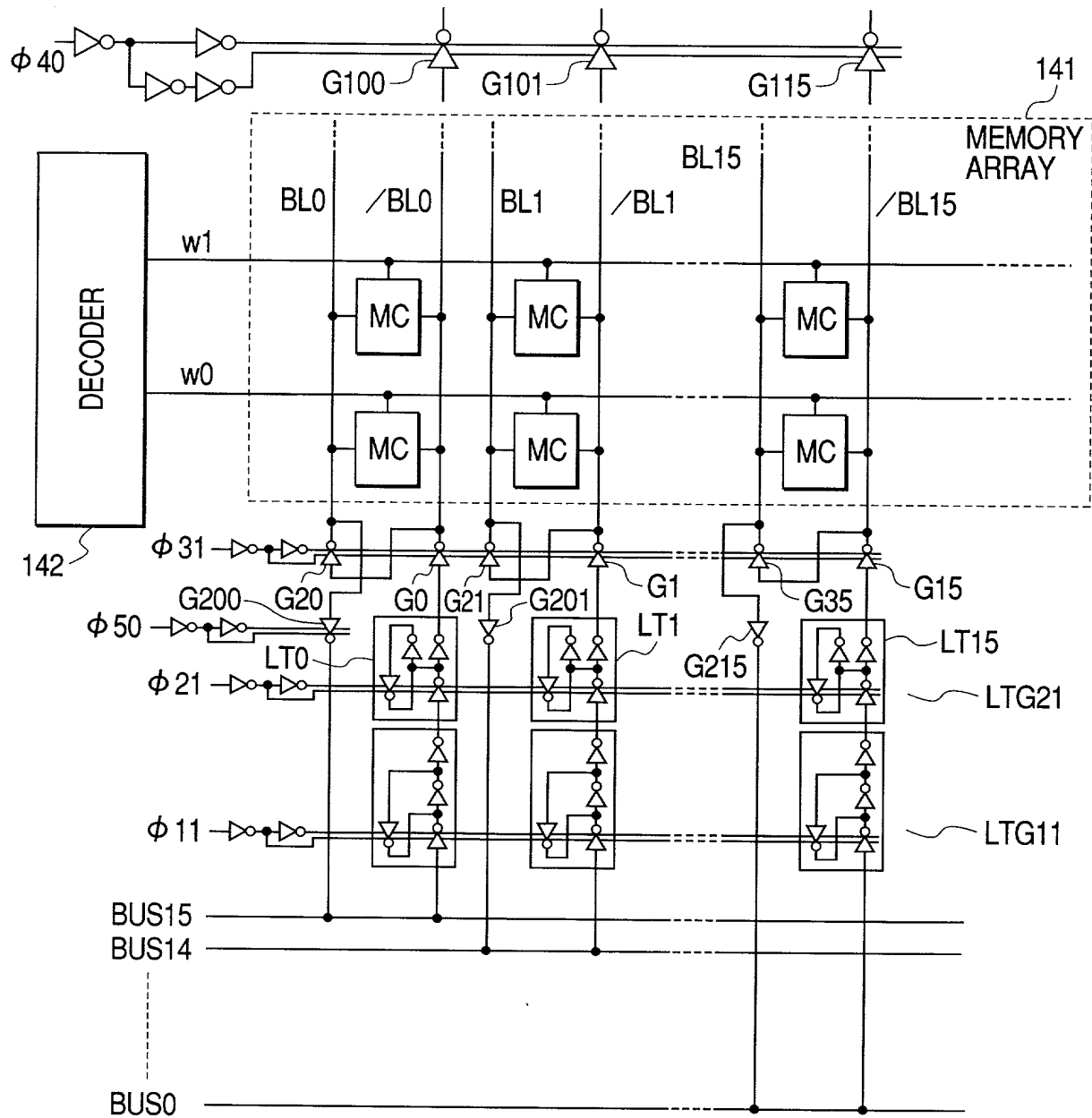


FIG. 5(A)

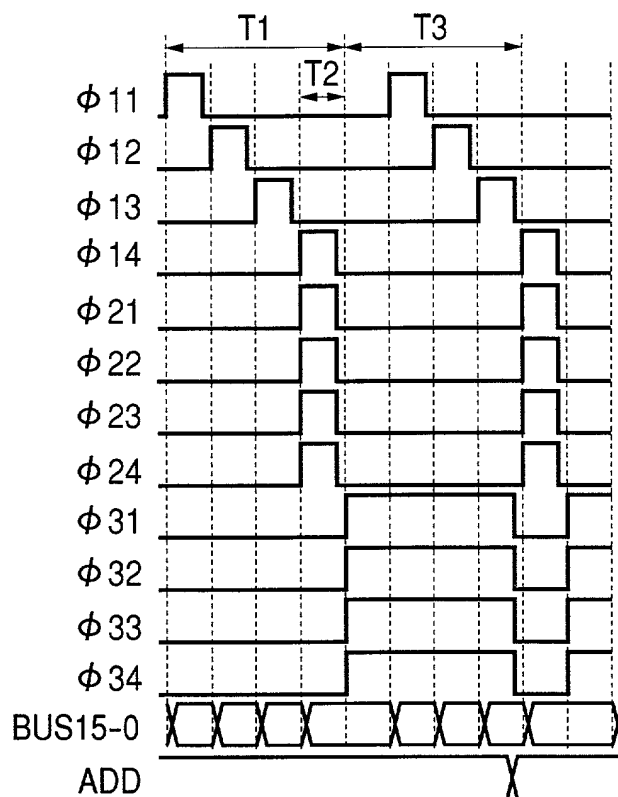


FIG. 5(B)

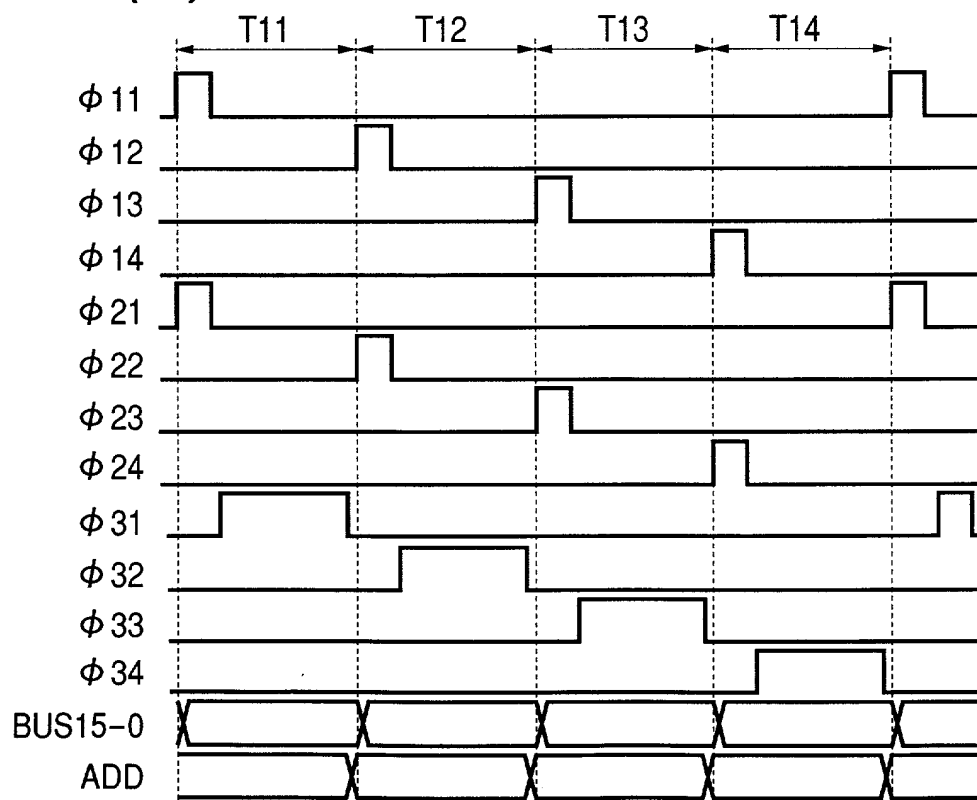


FIG. 6(A)

UNIT OF BURST WRITE

1 LINE	\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007	...	\$003F
2 LINE	\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107	...	\$013F
3 LINE	\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207	...	\$023F
128 LINE	\$7F00	\$7F01	\$7F02	\$7F03	\$7F04	\$7F05	\$7F06	\$7F07	...	\$7F3F
168 LINE	\$A700	\$A701	\$A702	\$A703	\$A704	\$A705	\$A706	\$A707	...	\$A73F
256 LINE	\$FF00	\$FF01	\$FF02	\$FF03	\$FF04	\$FF05	\$FF06	\$FF07	...	\$FF3F

FIG. 6(B)

	DUMMY DATA	WRITE DATA				DUMMY DATA				
1 LINE	\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007	...	\$003F
2 LINE	\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107	...	\$013F
3 LINE	\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207	...	\$023F
128 LINE	\$7F00	\$7F01	\$7F02	\$7F03	\$7F04	\$7F05	\$7F06	\$7F07	...	\$7F3F
168 LINE	\$A700	\$A701	\$A702	\$A703	\$A704	\$A705	\$A706	\$A707	...	\$A73F
256 LINE	\$FF00	\$FF01	\$FF02	\$FF03	\$FF04	\$FF05	\$FF06	\$FF07	...	\$FF3F

FIG. 7(A)

i) REWRITE AREA: IN NEW 4 WORDS WRITING, A WRITE ADDRESS BEGINS FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR
WRITING TO LATCHES: 4 TIMES

(1)	(2)	(3)	(4)				

RAM

ONCE

FIG. 7(B)

ii) REWRITE AREA: IN NEW 8 WORDS WRITING, A WRITE ADDRESS BEGINS FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR
WRITING TO LATCHES: 8 TIMES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

RAM

TWICE

FIG. 7(C)

iii) REWRITE AREA: WHEN IT WRITES IN A DIFFERENT LINE EVERY 4 WORDS, EACH WRITE ADDRESS BEGINS FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR
WRITING TO LATCHES: 8 TIMES

(1)	(2)	(3)	(4)				
(5)	(6)	(7)	(8)				

RAM

TWICE

FIG. 8(A)

i) REWRITE AREA: IN NEW 3 WORDS WRITING, A WRITE ADDRESS DOES NOT BEGIN FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR
WRITING TO LATCHES : 4 TIMES

(1)	(2)	(3)	(4)				

RAM

ONCE

FIG. 8(B)

ii) REWRITE AREA: IN NEW 4 WORDS WRITING, A WRITE ADDRESS DOES NOT BEGIN FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR
WRITING TO LATCHES : 8 TIMES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

RAM

TWICE

FIG. 8(C)

iii) REWRITE AREA: WHEN IT WRITES IN A DIFFERENT LINE EVERY 6 WORDS, EACH WRITE ADDRESS DOES NOT BEGIN FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR
WRITING TO LATCHES : 16 TIMES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)

RAM

4 TIMES

FIG. 9(A)

WRITE START ADDRESS	MASK AMOUNT FOR START SIDE	WRITE END ADDRESS	MASK AMOUNT FOR END SIDE
WSA	SMW	WEA	EMW

FIG. 9(B)

	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B
CASE 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CASE 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CASE 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CASE 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	■ MASK PORTION											

FIG. 9(C)

	WSA	SMW	WEA	EMW
CASE 1	0000	00	000B	00
CASE 2	0001	01	000A	01
CASE 3	0010	10	0009	10
CASE 4	0011	11	0008	11

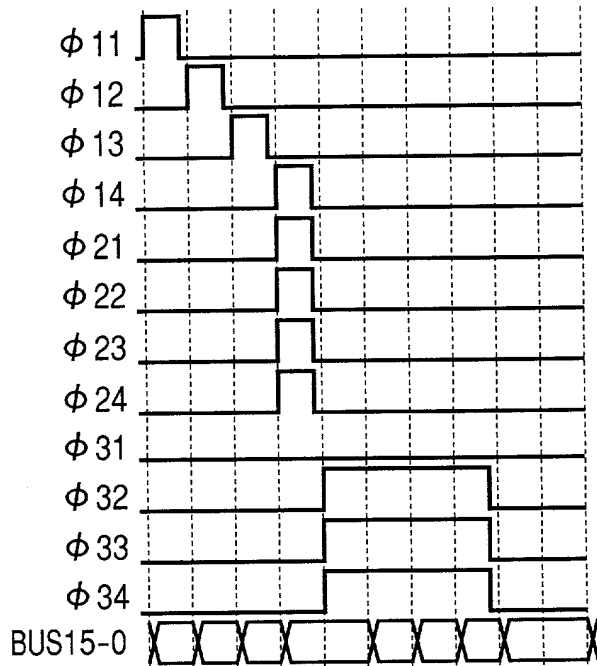
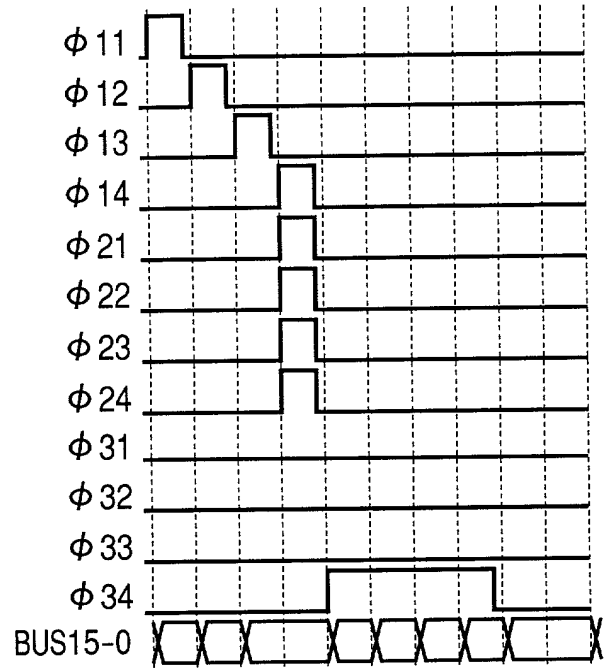
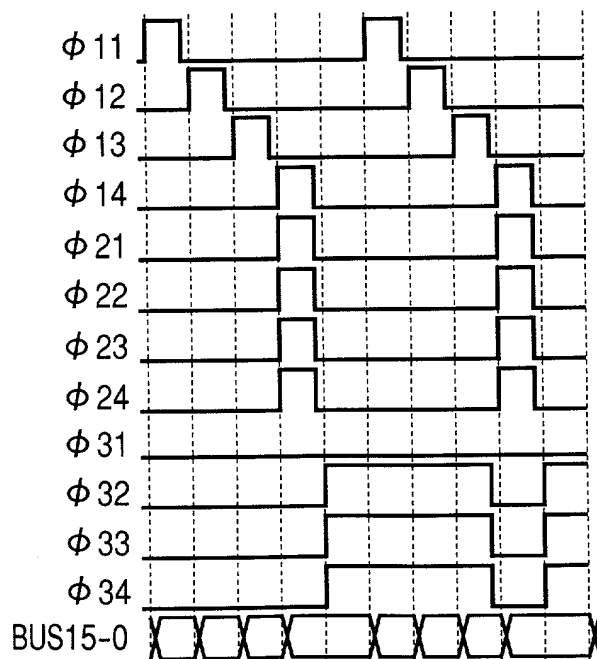
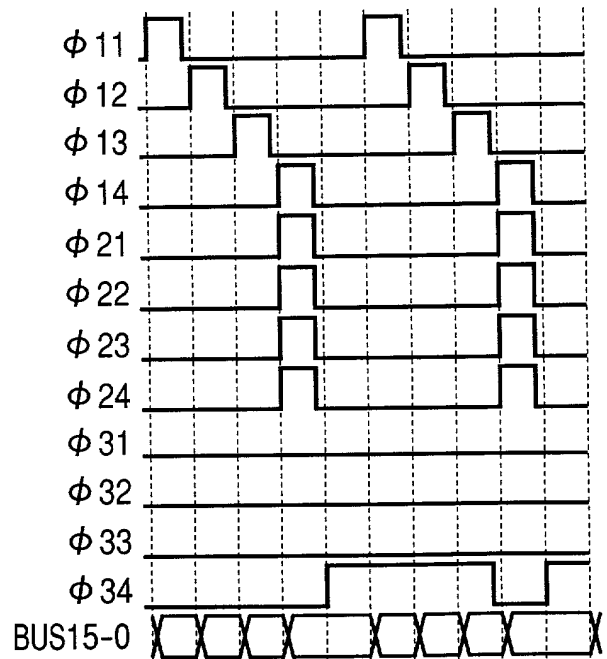
FIG. 10(A)*FIG. 10(B)**FIG. 10(C)**FIG. 10(D)*

FIG. 11

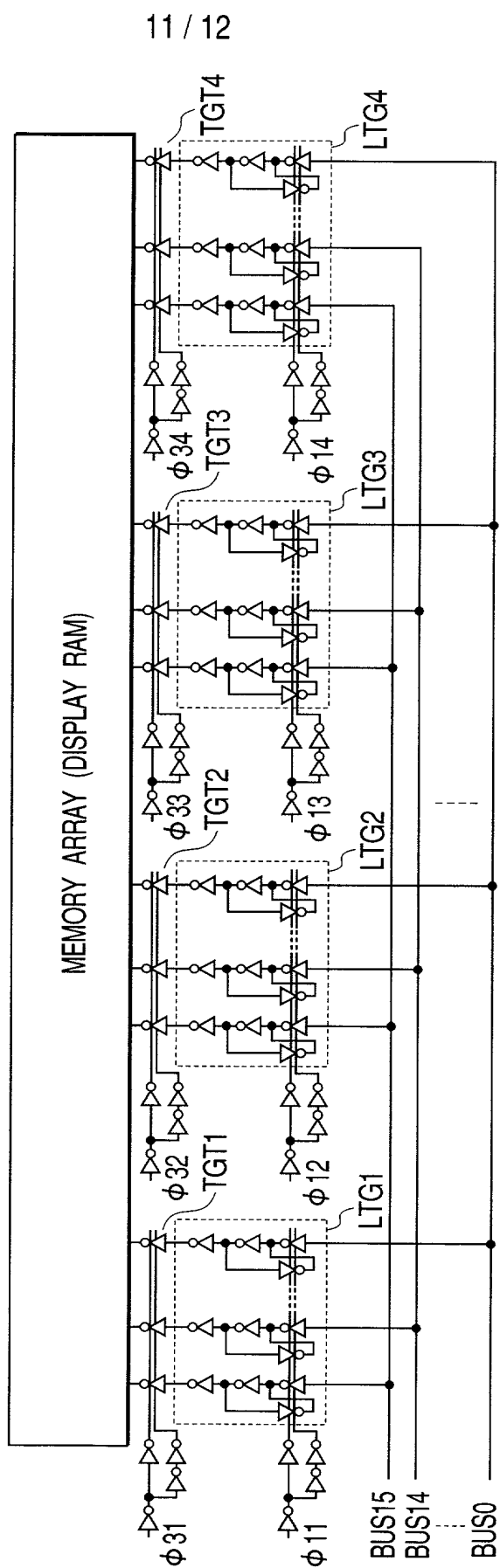


FIG. 12